### IN THE UNITED STATES PATENT AND TRADEMARK OFFICE

In the Patent Application of

David H. Bessel

Application No. 09/826,198

Filed: **April 4, 2001** 

For: Method and Apparatus for Legacy

Analog Video Interconnections in a Set-Top Box for Personal Video

**Recording Applications** 

Group Art Unit: 2611

Examiner: Christopher M. Lambrecht

#### DECLARATION UNDER 37 C.F.R. § 1.132

The undersigned, being Applicant's attorney of record, hereby declares the following based on information and belief.

- 1. The Applicant and inventor of the above-identified patent application, David H. Bessel ("Bessel") invented the subject matter now claimed in the above-identified patent application prior to December 28, 2000, the filing date of U.S. 2004/0261112 to Hicks, III et al. ("Hicks").
- 2. Bessel conceived of the invention as presently claimed and described that invention in such complete terms as to enable the preparation of the above-identified patent application at least as early as September 22, 2000.
- 3. Bessel created written documentation of the invention as presently claimed in the above-identified patent application at least as early as September 22, 2000. A copy of such documentation dated September 22, 2000 is attached to this declaration.

- 4. The attached document dated September 22, 2000 was submitted to the undersigned who, based on that document, prepared and filed the above-identified patent application in compliance with 35 U.S.C. §§ 101 and 112.
- 5. All statements made herein of my/own knowledge are true, all statements made herein on information and belief are believed to be true, and further that these statements were made with the knowledge that willful false statements and the like are punishable by fine or imprisonment, or both, under 18 U.S.C. 1001, and may jeopardize the validity of the application or any patent issuing thereon.

Respectfully submitted,

**DATE: 10 June 2005** 

Steven L. Nichols

Registration No. 40,326

Steven L. Nichols, Esq.
Managing Partner, Utah Office
Rader Fishman & Grauer PLLC
River Park Corporate Center One
10653 S. River Front Parkway, Suite 150
South Jordan, Utah 84095

(801) 572-8066 (801) 572-7666 (fax)

### IN THE UNITED STATES PATENT AND TRADEMARK OFFICE

In the Patent Application of

David H. Bessel

Application No. 09/826,198

Filed: April 4, 2001

For: Method and Apparatus for Legacy

Analog Video Interconnections in a Set-Top Box for Personal Video

**Recording Applications** 

Group Art Unit: 2611

Examiner: Christopher M. Lambrecht

## DECLARATION UNDER 37 C.F.R. § 1.131

The undersigned, being sole inventor and Applicant of the above-identified patent application, hereby declares the following based on information and belief.

- 1. I, David H. Bessel, invented the subject matter now claimed in the above-identified patent application prior to December 28, 2000, the filing date of U.S. 2004/0261112 to Hicks, III et al. ("Hicks").
- 2. I conceived of the invention as presently claimed and described that invention in writing in such complete terms as to enable one of skill in the art to practice the invention as claimed without undue experimentation at least as early as September 22, 2000. This writing also enabled the preparation of the above-identified patent application.

3. All statements made herein of my/own knowledge are true, all statements made herein on information and belief are believed to be true, and further that these statements were made with the knowledge that willful false statements and the like are punishable by fine or imprisonment, or both, under 18 U.S.C. 1001, and may jeopardize the validity of the application or any patent issuing thereon.

David H. Bessel	
Date	

# RECL. VED

SEP 22 2000

1 of 5

VENTION DISCLOSURD ISAN DIEGOny Confidential

u December of Tiste of	41 T	IPD Case #: <u>50 P43</u> (IPD use or			
Short Descriptive Title of Method of legacy video		in Set Top Box for Personal Video Recording Applications			
Short Summary of the Inve	ention:				
This discloser a method		egacy video to a ersonal Video Recording (PVR) applications			
Cuoto our rop 20th (012		,			
		f any): Deborah Hutchinson			
Business Address:		Bernardo Dr. MZ 7205 / San Diego, CA 92127			
Business Phone/Fax:		70 / 858-921-9142			
Business Email Address	: <u>Debbie.Hutc</u>	chinson@am.sony.com			
Identify all persons who	contributed to t	the present invention including persons from other Sony Divisi			
		nal determination of inventorship is a legal question which wil			
resolved at a later time.					
Full Legal Name:		David H. Bessel			
Home Address:		P.O. Box 669, Poway, CA 92074			
Citizenship:		US			
Business Address (inclu	de mail drop):	16450 West Bernardo Dr. MZ 7200 / San Diego, CA 92127			
Business Phone/Fax:		858-942-2646 / 858-921-9178 ,			
Business Email Address		Dave.Bessel@am:sony.com			
Division / Company / Location:		ATC / DCA / San Diego			
✓ Sony Employee	☐ Intern	☐ Contractor/Consultant ☐ Temp. ☐ Other:			
Manager's Name:		David A. Desch			
Business Address:		16450 West Bernardo Dr., San Diego, CA 92127, US			
		858 942 –2784			
Business Phone/Fax:					
Business Phone/Fax: Business Email Address	:	Dave.Desch@am.sony.com			
	•	Dave.Desch@am.sony.com			
	•	Dave.Desch@am.sony.com			
Business Email Address	:	Dave.Desch@am.sony.com			
Business Email Address Full Legal Name: Home Address: Citizenship:		Dave.Desch@am.sony.com			
Business Email Address Full Legal Name: Home Address:					
Business Email Address Full Legal Name: Home Address: Citizenship: Business Address (inclu Business Phone/Fax:	de mail drop):	Dave.Desch@am.sony.com			
Business Email Address Full Legal Name: Home Address: Citizenship: Business Address (inclu Business Phone/Fax: Business Email Address	de mail drop):				
Business Email Address Full Legal Name: Home Address: Citizenship: Business Address (inclu Business Phone/Fax:	de mail drop):				
Business Email Address Full Legal Name: Home Address: Citizenship: Business Address (inclu Business Phone/Fax: Business Email Address	de mail drop):				
Business Email Address Full Legal Name: Home Address: Citizenship: Business Address (inclu Business Phone/Fax: Business Email Address Division / Company / Lo Sony Employee	de mail drop):				
Business Email Address Full Legal Name: Home Address: Citizenship: Business Address (inclu Business Phone/Fax: Business Email Address Division / Company / Lo Sony Employee Manager's Name:	de mail drop):	□ Contractor/Consultant □ Temp. □ Other:			
Business Email Address Full Legal Name: Home Address: Citizenship: Business Address (inclu Business Phone/Fax: Business Email Address Division / Company / Lo Sony Employee  Manager's Name: Business Address:	de mail drop):				
Business Email Address Full Legal Name: Home Address: Citizenship: Business Address (inclu Business Phone/Fax: Business Email Address Division / Company / Lo Sony Employee Manager's Name:	de mail drop): : : : : : : : : : : : : : : : : : :	□ Contractor/Consultant □ Temp. □ Other:			

(3)	Edit and Name			
	Full Legal Name:	1.01		
	Home Address:	(If Japanese, please provide name in Kanji)		
	Citizenship:	(If Japanese, please provide name in Kanji)		
	Business Address (include mail drop):	1		
	Business Phone/Fax:			
	Business Email Address:			
	Division / Company / Location:			
	☐ Sony Employee ☐ Intern	☐ Contractor/Consultant ☐ Temp. ☐ Other:		
	Manager's Name:			
	Business Address:			
	Business Phone/Fax:			
	Business Email Address:			
(4)	Full Legal Name:			
	Home Address:			
	Citizenship:	(If Japanese, please provide name in Kanji)		
	Business Address (include mail drop):			
	Business Phone/Fax:			
	Business Email Address:			
	Division / Company / Location:	1 1		
	☐ Sony Employee ☐ Intern	☐ Contractor/Consultant ☐ Temp. ☐ Other:		
	Manager's Name:	·		
	Business Address:			
	Business Phone/Fax:	/		
	Business Email Address:			
	(Use	Additional Inventors sheet if necessary)		
II.	BACKGROUND INFORMATION	·		
1.		eloped while working under or in the performance of experimental, for by a Government Contract or upon the understanding that a		
2.	Has your invention been disclosed to anyomanual, report, lecture, trade show, techni XD NO D YES	one outside of Sony in a speech, exhibit, presentation, product, product ical article, publication or otherwise?		
3.	Is this invention related to any previous someone else)?  XO NO O YES	Sony Invention Disclosures of which you are aware (made by you or		
4.	If you responded "YES" to any of question	ons 1-3, please explain below:		

Date

Date

5.	Name of product(s) or project(s) for which this invention was developed:						
•	Millennium Cablevision Set Top Box (STB)						
6.	When do you expect a product incorporating this invention to be sold, offered for sale or shown to someone outside of Sony? (If a product or prototype has already been sold, offered for sale or shown, please identify the earliest date this happened.):  Jan 2002						
7.	Has a working model of the invention been built and tested (or appropriate software been written)?  X□ NO □ YES: If yes, who has witnessed a demonstration, and when?						
8.	List below any patents, publications, articles, texts, products, etc. which describe technology similar to your invention including reference material which may be useful in understanding the background technology of your invention: (Include a copy of each item to IPD. Please include copies of all bibliographical information.)						
1:	Explain the problems, issues or needs which led to the invention, and explain how others have addressed these problems, issues or needs.  Describe your invention in terms of how it solves the problems described in paragraph 1. Specifically identify the new or novel features of your invention. Describe the construction and operation of the invention including drawings (flow charts, schematics, block diagrams, mechanical drawings, photographs, etc.) You may attach documentation in the form of letters, memos, engineering notebook pages, etc. if available, or you may use as many invention disclosure data sheets as necessary. Be sure each page is signed, dated and witnessed.						
3:	If there is more than one way to implement your invention, describe the "Best Mode" or your personal preference as to how to best implement, build, produce, or use your invention (e.g. preferred parts, materials techniques, etc. which you feel are best in practicing your invention). Each submitter's opinion is important here, even if there is disagreement. Please list anything you think will make the invention better in any way.						
4:	Briefly describe any alternate uses, variations or modifications of your invention, if any, which you contemplate.						
S	ignature of Submitter(s)  Read and understood by: Signatures of Witnesser (at least two witnesses preferred)						
5	Date 7 20 00 8 Color Date 8/20/00						
	Date Date						
Ь.							

Date

Date

## **Invention Disclosure Data Sheet**

# Paragraph 1. Explanation of Problem

Contemporary cable Set Top Boxes (STB) are required to tune both digital and legacy analog channels. Digital channels are received in a compressed format. Analog channels are received as standard NTSC (in the US,) format. For Personal Video Recording (PVR) applications, the legacy analog video material must be converted to digital form and must be compressed prior to being recorded on a disk drive storage unit. This conversion process adds complexity to the interconnection paths within the STB. The purpose of this patent disclosure is a method for interconnection that creates less complex system organizations.

## Paragraph 2. Explanation of Proposed Solution

Figure 1 illustrates a conventional method of connecting legacy, analog video from a tuner to the video presentation section and PVR hard disk drive in a STB. Analog video is routed from the tuner into a video decoder which converts it into a digital format. This digittized legacy video is then routed into the Presentation portion of the STB for active display and routed to an MPEG2 video encoder where it is compressed before being sent to the hard disk recorder. Note, that there is a separate path required for routing the original digital source video to the hard disk recorder. Both the Video Presentation unit and PCR disk must accept material from dual sources.

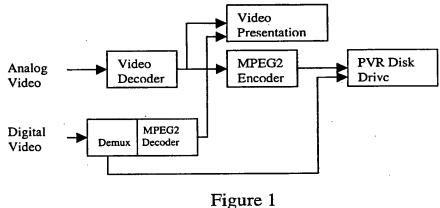
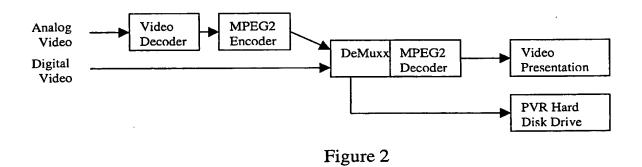


Figure 2 depicts the new, simplified organization. The key to this organization is that the legacy analog video is always compressed, regardless of whether it is being recorded, and then decompressed for presentation. Thus, both the legacy analog video and the digital video streams are treated exactly the same for presentation and for PVR recording activities, traveling over the same data path and a single interface to the PVR recorder. Other advantages may also exist. The dual port required in figure 1 into the PVR hard disk drive has been eliminated.



Paragraph 3. Preferred Implementation

There is no preferred method of implementation this organization. Implementations are dependent on other aspects of the system design and the specific components utilized.

	Signature of Submitter(s)			Read and understood by: Signatures of Wirelesses (at least two witnesses preferred)		
<	2 do Bend	Date	920 10		Date	7/20/00
		Date		Ι - γγ '	Date	
		Date			Date	
		Date			Date	